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APRIL 2009

EDITORIAL

We are pleased to share with you highlights of the first International Conference of Cellvizio® Users in this special edition of Cellvizio News. The conference proved to be an exciting forum for peer-to-peer learning. The weekend was filled with discussions and debates challenging conventional thinking and practice, and incorporated today's experience from the world's authoritative GI physicians. Importantly, this dialog will carry forward throughout the year on Cellvizio.net, our recently launched interactive online knowledge database. With new clinical results to be announced at the major conferences in the following months, we anticipate growing interest in the wide range of Cellvizio applications.

Sacha Loiseau, PhD,
 President, CEO and Founder



ICCU Special Edition

First ICCU Meeting to advance probe-based Confocal Laser Endomicroscopy (pCLE) practice



More than forty top GI endoscopists from around the world gathered in Miami in February for the first International Conference of Cellvizio Users (ICCU). Co-chaired by Paul Fockens, M.D. from the Academic Medical Center in Amsterdam, and Michael Wallace, M.D., from Mayo Clinic in Jacksonville, the conference achieved its goals, among which, to advance agreement on the interpretation of Cellvizio images.



The conference provided a forum for discussions about current and future applications of probe-based Confocal Laser Endomicroscopy (pCLE) including Barrett's Esophagus, bile and pancreatic duct diseases, endoscopic mucosal resection (EMR), colonic polyps and inflammatory bowel diseases. A key takeaway from the Conference was the potential of Cellvizio's impact on biopsy targeting and its potential to eventually improve upon some historic histologic practices to diagnose certain gastrointestinal diseases.

Upcoming Events

April 30 **Endoskopie 2009**
 Berlin, Germany

May 30- June 4 **Digestive Disease Week®**
 McCormick Place Convention Center
 Chicago

Cellvizio.net

Chicago

June 22-24 **27th European Workshop - GEEW**, Brussels, (Belgium)
[See more details](#)

June 25 **Cours Méditerranéen d'Endoscopie Digestive Thérapeutique**, Monaco

For more detailed information on Cellvizio's involvement at the conferences, [please click here](#)

COMPANY NEWS

VisualSonics to Sell Mauna Kea Technologies' Cellvizio® LAB on a Worldwide Basis



VISUALSONICS

Mauna Kea Technologies and **VisualSonics** announced that they have entered an exclusive distribution agreement through which **VisualSonics** will market and sell Cellvizio LAB high resolution in vivo imaging systems to pre-clinical researchers.

[Click here to read more](#)

PUBLICATIONS



Several new papers on Cellvizio have been published.

Thiberville et al. (2009). Human in-vivo fluorescence microimaging of the alveolar ducts and sacs during bronchoscopy. *European Respiratory Journal*.

Meining et al. (2009).

Cellvizio.net Launched New Interactive Database Designed to Sustain pCLE Dialogue and Education



During the ICCU, the company launched a new online user community - **Cellvizio.net** - to continue the dialogue on pCLE that started at the conference.

The interactive site enables physicians to learn more about Cellvizio image interpretation, discuss and debate Cellvizio images, and share findings within the Cellvizio user community.

Cellvizio.net currently offers its users the following:



Atlas:

A growing library of Cellvizio video clips, organized by organ and described with the corresponding clinical, endoscopic and endomicroscopic information provided by Cellvizio users.

Case Studies:

Specific and well-documented Cellvizio cases, published by the Cellvizio.net team, based on submissions or requests from Cellvizio users. Case studies include endoscopic videos or images, histopathology-confirmed diagnoses and subsequent patient management.



Grand Rounds:

A forum where users can submit cases, for open discussions and comments. The most interesting cases can then be enhanced with endoscopy videos, histology, and eventually stored as case studies.

We will modify and expand these offerings pending feedback from our current users.

ICCU (Continued)

Barrett's findings

Participants determined that Cellvizio could respond to the need for a way to more reliably exclude neoplasia from the Barrett's segment and to reduce the number of random biopsies thereby lowering the associated costs.

Participants also postulated that Cellvizio's ability to capture images of living cells in real time may lead to a greater understanding of biomarkers that predict disease progression in Barrett's esophagus.

Several centers in the U.S. and Europe are currently comparing the accuracy of pCLE to white light and narrow band imaging in a prospective, multicenter trial.

Pancreaticoscopy with miniprobe-based confocal laser-scanning microscopy of an intraductal papillary mucinous neoplasm (with video).

Gastrointest Endoscopy.

Monkemuller et al. (2009).

Endoscopic examination of the small bowel: from standard white light to confocal endomicroscopy. *Clinical Gastroenterology and Hepatology.*

[See the entire bibliography here](#)

ERCP findings

ICCU attendees concluded that Cellvizio has the potential to overcome the shortfalls of current bile and pancreatic duct cancer detection modalities, which are particularly prone to low diagnostic accuracy. In contrast, they pointed out that large irregular microvessels appear in Cellvizio images of malignant strictures, while benign tissue appears to have a very regular, reticular pattern when seen through pCLE.

A large, multi-center trial is underway in the U.S. and Europe to further define the diagnostic criteria for the images.

Cellvizio's Potential Role in Other GI Conditions

Cellvizio may also play a role in a series of other novel applications for its ability to potentially characterize suspicious tissue and eliminate unnecessary biopsies or to monitor and assess treatment outcomes. Other potential novel applications include detection of early rejection in small bowel transplantation, detection of microscopic colitis, better comprehension of fistulas & leaks, and detection of celiac disease.

Cellvizio may also play an important role in endoscopic mucosal resection (EMR). pCLE technology can be utilized before EMR to assess the margins and pathology of the segment and then to help the endoscopist determine whether all the malignant/pre-malignant tissue was removed and to determine baseline pathology of the region. Cellvizio can also be used during follow up, to assess residual neoplasia.

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